

1 1. In a computer system having access to a text message that contains a
2 plurality of semantic components that may include, for example, one or more headers or a
3 message body, a method for compressing the text message on a per semantic component
4 basis to form a compressed message while maintaining a degree of human readability, the
5 method comprising the following:

6 an act of accessing the text message;

7 an act of parsing the text message into the plurality of semantic
8 components; and

9 for at least some of the plurality of semantic components, performing the
10 following:

11 an act of identifying a compression method, if any, to be used when
12 compressing the semantic component for inclusion in the compressed
13 message; and

14 an act of including the compressed semantic component in the
15 compressed message.

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17 2. A method in accordance with Claim 1, wherein the semantic component
18 comprises a header field.

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20 3. A method in accordance with Claim 1, wherein the semantic component
21 comprises a current message within a body of the text message.

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23 4. A method in accordance with Claim 1, wherein the semantic component
24 comprises an embedded message within the text message.

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2 5. A method in accordance with Claim 1, wherein the text message comprises
3 an e-mail message.
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5 6. A method in accordance with Claim 1, wherein the text message comprises
6 a task message.
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8 7. A method in accordance with Claim 1, wherein the text message comprises
9 a meeting request message.
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11 8. A method in accordance with Claim 1, wherein the text message comprises
12 a meeting reminder message.
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14 9. A method in accordance with Claim 1, wherein the text message comprises
15 a meeting summary message.
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17 10. A method in accordance with Claim 1, wherein the act of identifying a
18 compression method comprises the following:

19 an act of determining the first character length of the text message if it was
20 compressed using a first set of compression rules;

21 an act of determining that the first character length is within a size limit for
22 the compressed message;
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1 an act of determining the second character length of the text message if it
2 was compressed using a second set of compression rules that are more lenient than
3 the first set of compression rules;

4 an act of determining that the second character length is not within the size
5 limit for the compressed message; and

6 an act of using a third set of compression rules that are at least as strict as
7 the first set of compression rules, but more lenient than the second set of
8 compression rules, to compress the text message.

1 11. In a computer system having access to a text message that contains a
2 plurality of semantic components that may include, for example, one or more headers or a
3 message body, a method for compressing the text message on a per semantic component
4 basis to form a compressed message while maintaining a degree of human readability, the
5 method comprising the following:

6 an act of accessing the text message;

7 an act of parsing the text message into the plurality of semantic
8 components; and

9 for at least some of the plurality of semantic components, performing a step
10 for optimizing the text compression on a per semantic component basis so that the
11 more important information is included in the compressed message.
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1 12. A computer program product for use in a computer system having access to
2 a text message that contains a plurality of semantic components that may include, for
3 example, one or more headers or a message body, the computer program product for
4 implementing a method for compressing the text message on a per semantic component
5 basis to form a compressed message while maintaining a degree of human readability, the
6 computer program product comprising a computer readable medium having computer-
7 executable instructions for performing the following:

8 an act of causing the text message to be accessed;

9 an act of parsing the text message into the plurality of semantic
10 components; and

11 for at least some of the plurality of semantic components, performing the
12 following:

13 an act of identifying a compression method, if any, to be used when
14 compressing the semantic component for inclusion in the compressed
15 message; and

16 an act of including the compressed semantic component in the
17 compressed message.

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19 13. A computer program product in accordance with Claim 12, wherein the
20 computer-executable instructions for performing the act of identifying a compression
21 method comprise computer-executable instructions for performing the following:

22 an act of determining the first character length of the text message if it was
23 compressed using a first set of compression rules;
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1 an act of determining that the first character length is within a size limit for
2 the compressed message;

3 an act of determining the second character length of the text message if it
4 was compressed using a second set of compression rules that are more lenient than
5 the first set of compression rules;

6 an act of determining that the second character length is not within the size
7 limit for the compressed message; and

8 an act of using a third set of compression rules that are at least as strict as
9 the first set of compression rules, but more lenient than the second set of
10 compression rules, to compress the text message.

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12 14. A computer program product in accordance with Claim 12, wherein the
13 computer-readable medium is a physical storage medium.
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1 15. In a computer system having access to a message body having contained
2 therein one or more embedded messages, a method of parsing the embedded messages
3 from the message body, the method comprising the following:

4 an act of locating message breaks in the message body that are characteristic
5 of separations between messages in the message body; and

6 an act of identifying the material between each consecutive message break
7 as corresponding to an embedded message.
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9 16. A method in accordance with Claim 15, wherein the message body
10 corresponds to an e-mail message.
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12 17. A method in accordance with Claim 15, wherein the act of locating message
13 breaks in the message body that are characteristic of separations between messages in the
14 message body comprises the following:

15 an act of identifying a prefix of non-alphanumeric start characters in a given
16 line before the first alphanumeric character in the given line; and

17 an act of identifying a common prefix among a plurality of contiguous lines
18 in the message body by repeating the act of identifying a prefix for each of the
19 plurality of contiguous lines, the plurality of contiguous lines representing a
20 division in the message body.
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22 18. A method in accordance with Claim 17, further comprising the following:

23 an act of removing the common prefix from the plurality of contiguous lines
24 in the division;

1 after the act of removing, an act of scanning each of the contiguous lines to
2 detect any lines that begin with three or more of the same non-alphanumeric
3 characters followed by alphanumeric characters followed by three or more of the
4 same non-alphanumeric characters; and

5 and act of determining that sections within the division that begin with any
6 lines detected in the act of scanning are embedded messages within the message
7 body.
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1 19. A computer program product for use in a computer system having access to
2 a message body having contained therein one or more embedded messages, the computer
3 program product for implementing a method of parsing the embedded messages from the
4 message body, the computer program product comprising a computer-readable medium
5 having stored there computer-executable instructions for performing the following:

6 an act of locating message breaks in the message body that are characteristic
7 of separations between messages in the message body; and

8 an act of identifying the material between each consecutive message break
9 as corresponding to an embedded message.
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11 20. A computer program product in accordance with Claim 19, wherein the
12 computer-readable medium comprises a physical storage medium.
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14 21. A computer program product in accordance with Claim 19, wherein the
15 computer-executable instructions for performing the act of locating message breaks in the
16 message body that are characteristic of separations between messages in the message body
17 comprise computer-executable instructions for performing the following:

18 an act of identifying a prefix of non-alphanumeric start characters in a given
19 line before the first alphanumeric character in the given line; and

20 an act of identifying a common prefix among a plurality of contiguous lines
21 in the message body by repeating the act of identifying a prefix for each of the
22 plurality of contiguous lines, the plurality of contiguous lines representing a
23 division in the message body.
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1 22. A computer-program product in accordance with Claim 21, wherein the
2 computer-readable medium further has stored thereon computer-executable instructions for
3 performing the following:

4 an act of removing the common prefix from the plurality of contiguous lines
5 in the division;

6 after the act of removing, an act of scanning each of the contiguous lines to
7 detect any lines that begin with three or more of the same non-alphanumeric
8 characters followed by alphanumeric characters followed by three or more of the
9 same non-alphanumeric characters; and

10 and act of determining that sections within the division that begin with any
11 lines detected in the act of scanning are embedded messages within the message
12 body.